

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

1200 Sixth Avenue Seattle, WA 98101

February 10, 2003

Reply To

Attn Of:

OW-137

Mr. Michael Ollivant, P.E. Project Manager Parametrix, Inc. P.O. Box 460 Sumner, WA. 98390-1516

Dear Mr. Ollivant:

This letter is in response to your January 16, 2003 letter regarding the revised quality assurance project plan (QAPP) and sampling and analysis plan, Quil Ceda Village treated effluent infiltration system inventory and assessment. The following parameters need to be considered as target compounds in addition to the chemicals in table 2.2 of the sampling and analysis plan and QAPP: 1) organic chemical acrylamide, 2) benzo (a) pyrene (PAH's), and 3) epichlorohydrin. Also, a baseline for radionuclides (alpha/beta and Ra-226-228 combined) is needed. With these additions, the proposed procedures are appropriate to satisfy the requirements for a QAPP and a signed copy of the plan is enclosed. Please call Thor Cutler at (206) 553-1673 if you have any questions.

Sincerely,

Tim Hamlin, Manager Ground Water Protection Unit

cc: Ken Fellows- Parametrix

Tom McKensey- The Tulalip Tribes

Talib Syed- TSA

Name	Thor Cutler	Tim Hamlin
Date	Tooligler	- ,
Signature	2/3/03	

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Incident Response - Intentional Contamination Situation

Water Quality Sampling & Analysis

Purpose: 1) Determine if something has been added to water / unusual WQ.

- 2) Determine level of health risk (potential) consume, touch, shutoff?
- 3) Assist in determining actions.

A) Haz Mat Team Response

- Rads Geiger counter
- pH
- Conductivity
- Explosivemeter O₂ Level, Lower
 Explosive Limit (LEL)
- F.I.D. Flame Ionization Detector petroleum products
- P.I.D. Photo Ionization Detector chlorinated compounds
- T.I.P. Total Ionization Potential (Sniffer gross organics check)

Purpose: 1) Assess immediate danger to first responders –

explosives, off gassing.

- 2) Assess need for Lab personnel safety
- 3) Heads up to Lab on concentration levels of contaminants (high, low)

B) Sampling - Analysis

1. On-site:

Cl₂ Residual - Total & Free; Rads, pH, Conductivity, TIP (Haz Mat Responders).

2. Laboratory Analysis:

Usually-----

- a. Complete Inorganic Chemical (metals)
- b. VOCs
- c. SOCs Method 525 (GCMS)
- d. Bacteriological: Coliform and HPC

Maybe-----

- e. Exotic Bio-organisms (State Lab)
- f. Radionuclides
- g. SOCs Methods 515 & 531
- h. Others???

3. Sample Collection:

- a. Initial 2 sets of triplicate samples for each test method ASAP from incident site
- b. Second set of triplicate samples at 4 hours, and at 8 hours then as needed.
- c. Sample sets should be directed to two different laboratories.

- d. Labs should be contacted as soon as possible in order to allow for needed mobilization and preparation time.
- e. Chain of custody forms should be used.

C. Chemical Analysis Methods / Equipment

- Metals ICP MS (Inductively Coupled Plasma Mass Spectrometer) (new method allow As detection to 1 ppb) Nitrite, fluoride *cyanide require different method?
- SOCs Method 525 GCMS (Gas Chromatograph Mass Spectrometer) (Must do concentration and extraction process for SOCs) GCMS can be operated to 'scan' for wide range of organic chemicals in order to qualify a sample. To quantify a sample concentration, will need standardization and QC steps.
- **VOCs** GCMS Direct injection of sample into instrument. (High concentrations require dilution steps).
- SOCs Method 515 (chlorinated herbicides) GC-ECD (Electron Capture Detector) *525 GCMS scan would indicate these compounds at high concentrations.
- SOCs Method 531 (carbomate insecticides) HPLC (High Performance Liquid Chromatology)

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